

Shivam Sharma

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<https://github.com/shivamsharma8168> | <https://shiv8168.vercel.app/>

Summary

DevOps Engineer with hands-on experience in AWS, Kubernetes, CI/CD pipelines, Docker, and Terraform, specializing in cloud infrastructure automation, containerization, and system security. Skilled in deploying scalable applications, optimizing workflows, and enhancing security compliance. Proficient in Python scripting and Linux administration with a strong foundation in software development and problem-solving. Seeking to contribute to high-performance teams by driving efficiency, automation, and innovation in DevOps practices.

Skills

- **Cloud Platforms:** AWS (EC2, IAM, S3), Cloud Security
- **Version Control:** Git, GitHub
- **Programming and Scripting:** Python, Shell Scripting, SQL
- **DevOps Tools:** Jenkins, Docker, Kubernetes, Terraform, Nginx
- **Operating Systems:** Linux (Ubuntu, Debian)
- **Other skills:** HTML, CSS

Work Experience

Skillquest Learnings | *DevOps Engineer*

May 2025 - Present

- Architected and managed secure VPN infrastructure using WireGuard for remote access control, reducing unauthorized logins by 40 percent.
- Designed and deployed Dockerized frontend and Flask backend with Nginx reverse proxy, achieving high availability and scalability.
- Built CI/CD pipelines using Jenkins to automate testing and deployments, reducing release time by 60 percent.
- Implemented Fail2ban and firewall scripts to block brute-force and DDoS attacks, improving overall system security.
- Automated infrastructure monitoring and log management with Bash and Python scripts, enhancing visibility and operational efficiency.

Projects

InfraGuard-Cloud Scanner | <https://infraguard.me/>

Jun 2025 - Present

- Developed and deployed a full-stack cloud vulnerability scanning platform for AWS infrastructures using Python (Flask) for backend and HTML/CSS/JS for the frontend, hosted on Render and Vercel respectively.
- Performed vulnerability scans on EC2, S3, and IAM using AWS SDK (boto3), with dynamic result dashboards.
- Utilized AWS SDK (boto3) to perform automated EC2, IAM, and S3 security checks and generate detailed cloud security reports.
- Achieved production-level deployment with proper CORS, session handling, and async job polling for smooth UX.

CI/CD Pipeline using Jenkins | <http://44.208.36.56/>

Mar 2025 - May 2025

- Developed a CI/CD pipeline using Jenkins, deployed a portfolio site on AWS EC2.
- Integrated GitHub webhooks and LocalTunnel to trigger Jenkins builds from a local machine.
- Utilized Docker for isolated Jenkins setup and environment consistency.
- Configured Gmail SMTP for build failure notifications; used Nginx as a reverse proxy.
- Automated Jenkins job backups via batch scripts and Windows Task Scheduler.

Education

JIMS Engineering Management Technical Campus (JEMTEC)

Sep 2022 - Sep 2026

B.Tech, Computer Science & Engineering (GPA: 8.0)

Greater Noida

Certifications

Simplilearn | *Search Engine Optimization*

- Completed training in On-Page & Off-Page SEO, Keyword Research, Image Optimization, Crawling, and Page Speed
- Hands-on practice with Google Keyword Planner & Ahrefs.

Internshala Trainings | *Web Development*

- Completed 8-week certified training covering HTML, CSS, Bootstrap, DBMS, PHP, JavaScript and React.
- Built a final project applying web development concepts.
- Scored 64% in the final assessment.

Achievements

- **2nd Runner-Up – DSA Hackathon:** Solved complex algorithmic problems under time constraints, recognized for coding efficiency and teamwork.